

1754



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

JACOBSON ET AL.

CASE NO.: CH2714 US NA

SERIAL NO.: 09/848,896

GROUP ART UNIT: 1754

10 FILED: MAY 4, 2001

EXAMINER: T. VAN OY

FOR: SULFUR TRIOXIDE DELIVERY
SYSTEMAMENDMENT

15

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

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In response to the Office Action dated December 13, 2002, please
amend the above-referenced application as follows:IN THE CLAIMS

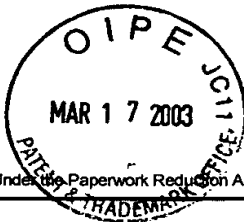
Please cancel claim 2 and amend claims 1 and 8 as follows:

25 1. (Amended) A process for reversible sorption of sulfur
trioxide onto a sorbent comprising a) contacting from about 15% to 100%
sulfur trioxide in an inert gas with the sorbent under anhydrous conditions
at a temperature of from about 35°C to about 150°C thereby sorbing the
sulfur trioxide onto the sorbent which sorbent is then capable of storage,
b) desorbing sulfur trioxide from the sorbent at a temperature of from
30 about 150°C to about 350°C at about atmospheric pressure, or under a
vacuum pressure, and c) recycling said sorbent by continuously repeating
steps a) and b), wherein said sorbent has structural stability upon recycle,
a pore size of at least 0.5 nm, and consists essentially of silica or zeolite,
said zeolite having a silicon to aluminum ratio greater than about 5.1.

35 8. (Amended) A sorbent consisting essentially of silica or
zeolite, said zeolite having a silicon to aluminum ratio greater than about
5.1, said sorbent having a pore size of at least 0.5 nm, and having
adsorbed thereon a minimum of about 1% by weight sulfur trioxide.

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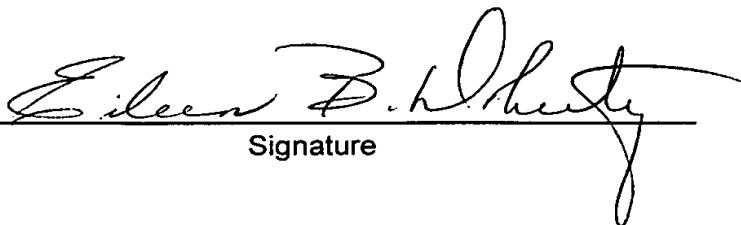


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